

Procedure Name:	PMA 2 Ingress 12/18/97
Applicability:	3A
Frequency:	
Objective:	
Description:	
Crew Required:	
Power:	
Data:	
Duration:	
Location:	
Parts:	
Materials:	
Tools:	
Constraints:	
Assumptions:	<p>Shuttle vestibule and PMA 2 are pressurized and leak checked prior to start of procedure.</p> <p>Shuttle/Station air duct assembly was left in PMA 2 on the previous ingress and is attached to the PMA fixed duct. A band clamp is attached to the free end of the Shuttle/Station air duct and is thus ready to clamp onto the ODS flex duct.</p> <p>PMA fixed duct grill cover is in open position pre ingress.</p>

Reference Materials:

PMA 2 INGRESS

TOOLS AND EQUIPMENT REQUIRED

Unstow:

TBD

INGRESS ODS VESTIBULE

1. EQUAL VLV (one) - Norm
2. $\sqrt{\text{ODS Hatch } \Delta P \leq 0.2 \text{ psid}}$
3. Open ODS hatch per decal
4. EQUAL VLV (one) → Off
Install cap

WARNING

Surfaces may be below freezing for a short time after initial ODS hatch opening. Avoid direct contact with vestibule surfaces until SHUTTLE VESTIBULE TEMP 1,2 (two) indicate > 40 degF (SM 211 DM STATUS ODS INTERFACE).

5. Insert ODS air duct extension into vestibule.
6. Wipe any condensate from vestibule volume.

REMOVE APAS DOCKING EQUIPMENT

7. Perform TBD procedure, return.

OPEN APAS HATCH

APAS
Hatch

8. Open APAS Hatch:
Select "WORKING" torque setting on hatch tool,
Insert tool in hatch socket, rotate 3 --- 4 turns in direction of
"OPEN" (Open) arrow until clicks

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*   If tool prematurely slips or does not engage:   *
*       Select "EMERGENCY" setting on               *
*       hatch tool.                                  *
*       Reattempt to open hatch.                     *
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Remove tool, open hatch.
Tether tool on hatch handle.
Secure hatch in open position using fixing device.

SHUTTLE/STATION AIR DUCT CONNECTION

- A6L 9. ARLK/TNL FAN A(B) - Off
- EXT A/L 10. Cut, remove tie-wrap holding air inlet flex duct to halo cross using tie wrap cutting tool.
11. Disconnect flex duct from halo cross air duct.
- PMA 2 12. Cut tie-wrap restraining Shuttle/Station air duct assembly
13. Drag free end of Shuttle/Station air duct assembly from the PMA into the ODS.
- EXT A/L 14. Loosen the handled band clamp attached to the free end of the Shuttle/Station air duct.
15. Install handled band clamp over the end of the ODS flex duct.
16. Insert the free end of the Shuttle/Station air duct into the ODS flex duct and tighten clamp using handle until secure.
- MO13Q 17. ARLK/TNL FAN A(B) - On
√Airflow at PMA fixed duct grill